PATENT Atty. Dkt. No. YOR920030416U\$1

## IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

PATTERSON & SHERIDAN

1. (Currently Amended) A method for chemically fabricating or altering a submicrostructure on an object, comprising:

providing a heating means proximate to a local region of the object, wherein said heating means includes a heat emitting surface embedded in said heating means;

providing at least one reactant on the local region of the object; and selectively heating the at least one reactant on the local region using the heat emitting surface of the heating means to facilitate in the local region a local chemical reaction for forming or altering a submicrostructure on the local region.

- 2. (Cancelled).
- 3. (Previously Presented) The method of claim 1, wherein the at least one reactant is provided in at least one of a liquid phase and a gaseous phase, where the liquid phase comprises at least one of a thin layer form and a droplet form.
- 4. (Original) The method of claim 1, wherein the chemical reaction effects at least one of etching, depositing, and removing material from the object.
- 5. (Original) The method of claim 1, wherein the heating means is adapted to a first end of a cantilever, wherein said cantilever has a second end coupled to a device for positioning the heating means.
- 6. (Original) The method of claim 1, wherein the heating means comprises at least one of a nanoheater and a thermal transducer.

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- 7. (Previously Presented) The method of claim 6, wherein the heat-emitting surface of the thermal transducer has topographic dimensions in a range of about 10 to 200 nm.
- 8. (Original) The method of claim 1, wherein a heat-conductive medium is provided between the heating means and the local region.
- 9. (Original) The method of claim 8, wherein the heat-conductive medium comprises at least one of a lubricant and a reactant.
- 10. (Original) The method of claim 1, wherein the submicrostructure is a defect-eliminating feature formed or altered on a portion of a lithographic reticle or mask.
- 11. (Previously Presented) The method of claim 10, wherein the chemical reaction performs at least one of: etching a film in an opaque region, depositing a film in an opaque region, etching a film in a transparent region, or depositing a film in the transparent region.
- 12. (Original) The method of claim 1, wherein the submicrostructure is a portion of an integrated circuit.
- 13. (Original) The method of claim 12, wherein the portion is at least one of a line, a conductive via, a contact pad, and a dielectric pad.
- 14. (Original) The method of claim 1, wherein the submicrostructure is a portion of a field effect transistor.
- 15. (Previously Presented) The method of claim 14, wherein the chemical reaction causes at least one of: forming a channel region, forming source and drain regions, forming a gate dielectric, or forming a gate electrode.

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- 16. (Original) The method of claim 1, wherein the submicrostructure is an information-containing portion of a recording medium.
- 17. (Original) The method of claim 16, wherein the recording medium comprises at least one of digital video disks (DVD) and compact recording (CD-ROM) disks.

18-34 (Cancelled).